

INFORMATION SHEET
 ORDER NO. R5-2006-XXX
 THE VENDO COMPANY
 FRESNO COUNTY

T4-1

		Applicable Criteria			Effluent Limits based on Human Health			Effluent Limits based on Aquatic Life				
		Units	Acute	Chronic	Human Health	ECA ¹	Average Monthly ² (ug/L)	Maximum Daily ³ (ug/L)	LTA _a ⁴	LTA _c ⁵	Min LTA	Maximum Daily ⁶ (ug/L)
CTR CONSTITUENTS												
Methylene chloride	ug/L	n/a	n/a	2.5	2.5	2.5	5.0	n/a	n/a	n/a	n/a	n/a
TCE	ug/L	45000	n/a	2.7	2.7	2.7	5.4	14445	n/a	14445	44924	22390
PCE	ug/L	5280	840	0.8	0.8	0.8	1.6	1695	443	443	1377	686
Chloroform	ug/L	28900	1240	1.1	1.1	1.1	2.2	9277	653	653	2032	1013
1,1,1-TCA	ug/L	n/a	n/a	200	200	200	402	n/a	n/a	n/a	n/a	n/a
Trans-1,2-DCE	ug/L	n/a	n/a	10	10	10	20	n/a	n/a	n/a	n/a	n/a
1,1-DCA	ug/L	n/a	n/a	5	5	5	10	n/a	n/a	n/a	n/a	n/a
1,2-DCP	ug/L	23000	5700	0.52	0.52	0.52	1.0	7383	3004	3004	9342	4656
Chromium VI	ug/L	16	11	21	21	21	42	5.14	5.80	5.14	16	8
1,1-DCE	ug/L	N/A	N/A	0.057	0.057	0.06	0.11	n/a	n/a	n/a	n/a	n/a
Copper ⁹	ug/L	1.4	1.2	200	200	200	402	0.46	0.62	0.46	1.4	0.7
Chromium III ⁹	ug/L	237	28	10500	10500	10500	21105	76	15	15	46	23
Zinc ⁹	ug/L	15.3	15.3	2000	2000	2000	4020	4.9	8.1	4.9	15.3	7.6
NON-CTR CONSTITUENTS												
Dischlorodifluoromethane	ug/L	n/a	n/a	0.19	0.19	0.19	0.38	n/a	n/a	n/a	n/a	n/a
Trichlorofluoromethane	ug/L	n/a	n/a	0.19	0.19	0.19	0.38	n/a	n/a	n/a	n/a	n/a
Cis-1,2-DCE	ug/L	n/a	n/a	6	6	6.0	12.1	n/a	n/a	n/a	n/a	n/a

¹ ECA = Effluent Concentration Allowance = Most stringent water quality objective (WQO) or criteria when dilution is not considered

² For Human Health the Average Monthly Effluent Limit (AMEL) = ECA_{HH}

³ For Human Health the Maximum Daily Effluent Limit (MDEL) = AMEL * (multiplier) for this Order the multiplier is 2.01 using a default CV=0.6

⁴ LTA_{acute} = ECA_{acute} * (multiplier) for this Order the multiplier is 0.321

⁵ LTA_{chronic}= ECA_{chronic} * (multiplier) for this Order the multiplier is 0.527

⁶ For Aquatic Life the Maximum Daily Effluent Limit (MDEL)= Minimum LTA * (multiplier) for this Order the Multiplier is 3.11 assuming default n=4 and CV=0.6

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⁷ For Aquatic Life the Average Monthly Effluent Limit (AMEL) = Minimum LTA * (multiplier) for this Order the Multiplier is 1.55 assuming default n=4 and CV=0.6

⁸ SIP, Section 1.4 Effluent Limit Calculation Equations and definitions provided on page two of this table.

⁹ Criteria developed using a minimum receiving water hardness concentration of 8.8 mg/L as CaCO

Section 1.4 of the SIP equations for determining Effluent Limitations:

$$ECA = C + D (C - B) \text{ when } C > B, \text{ and}$$

$$ECA = C \text{ when } C \leq B$$

Where:

ECA – Effluent concentration allowance

C = the priority pollutant criterion/objective or WQO/WQC;

D = the dilution credit (for this analysis D=0); and

B = the ambient background concentration

$$AMEL_{\text{human health}} = ECA$$

$$MDEL_{\text{human health}} = ECA * MDEL/AMEL \text{ multiplier (from Table 2)}$$

$$LTA_{\text{acute}} = ECA_{\text{acute}} * ECA \text{ multiplier}_{\text{acute}99} \text{ (from Table 1)}$$

$$LTA_{\text{chronic}} = ECA_{\text{chronic}} * ECA \text{ multiplier}_{\text{chronic}99} \text{ (from Table 1)}$$

$$AMEL_{\text{aquatic life}} = LTA * AMEL \text{ multiplier}_{95} \text{ (from Table 2) utilizing most stringent LTA}$$

$$MDEL_{\text{aquatic life}} = LTA * MDEL \text{ multiplier}_{99} \text{ (from Table 2) utilizing most stringent LTA}$$

Where:

LTA=Long Term Average

AMEL= Average Monthly Effluent Limitation

MDEL=Maximum Daily Effluent Limitation